

LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176

JEFFERSON CITY, MISSOURI 65102

573-751-4041

Permit To Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO

S & G SAND & GRAVEL, INC.

Pursuant to "The Land Reclamation Act." RSMo, 2001, and on conformity with the statements

In the application, a permit is hereby granted to engage in surface mining of
sand and gravel in the state of Missouri. The extent of the

Proposed mining operation(s) will be on 52.5 acres, more or less.

The locations of the operation(s) under this permit is/are as follows: Renewal & Amendment

County	Section	Township	Range	Acres Renewed	Acres New	Total Acres	Site/Stream Name	Site Number
St. Louis	USS 879 & 880	44N	04, 05E	45	7.5	52.5	Site #1	0529

This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act." RSMo. 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

IN WITNESS WHEREOF I have hereunto set my hand this 25th day of March 2004


DIRECTOR OF STAFF
Land Reclamation Commission

Permit No 0535
Effective Date 03/25/2004
Expiration Date 03/07/2005



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION

PERMIT APPLICATION FOR INDUSTRIAL MINERAL MINES

RECEIVED

FEB 27 2004

P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL S & G SAND AND GRAVEL INC 0535		MISSOURI LAND RECLAMATION COMMISSION	
ADDRESS P.O. Box 93	CITY Valley Park	STATE MO	ZIP CODE 63088
CONTACT PERSON STEPHEN SCHREITER		TELEPHONE NUMBER 636-225-4000	
Check any that apply: <input type="checkbox"/> New Permit <input checked="" type="checkbox"/> Permit Amendment <input type="checkbox"/> Permit Revision <input type="checkbox"/> Permit Expansion			
SITE NAME OR NUMBER	ACREAGE	LOCATION: COUNTY, SECTION, TOWNSHIP, RANGE (East or West)	
1. S & G SAND AND GRAVEL	45	St. Louis, USS 879+880, 44N, 04, 05E	
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
ATTACH ADDITIONAL SHEETS IF NECESSARY			
SIGNATURE OF APPLICANT [Signature]		TITLE VP	DATE 02/25/04
Appeared before me this 25 day of February , 20 04 STEPHEN SCHREITER to me personally known, who executed the above as their free acts and deeds.			
NOTARY PUBLIC EMBOSSEER SEAL	STATE MISSOURI	COUNTY (OR CITY OF ST. LOUIS) ST. LOUIS COUNTY	
	SUBSCRIBED AND SWORN BEFORE ME, THIS 25 DAY OF FEBRUARY , 20 04		USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE [Signature]	MY COMMISSION EXPIRES 10-25-05	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) PAUL A LIVINGSTONE		
FOR DEPARTMENT USE ONLY: APPROVED BY [Signature]	DATE APPROVED 3-11-04	PERMIT NUMBER 0535	EXPIRATION DATE 03/07/05

ATTACH FEES AND BONDING WORKSHEET.

RECEIVED

PERMIT APPLICATION FOR INDUSTRIAL MINERAL MINES

FEB 27 2004

FEES AND BONDING WORKSHEET

P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

MISSOURI LAND

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL

RECLAMATION COMMISSION DATE

S+G SAND AND GRAVEL INC

0535

FEES: COMPLETE SECTION I OR SECTION II

SECTION I. FEES: Open pit operators and those mining more than five thousand (5,000) tons of sand and/or gravel:

1. To compute the site fee complete the columns and lines below:

[illegible]

TOTAL SITE FEE | ➡ \$

2. Acreage fee: \$5 X 45 number of acres bonded ----- \$ 225.00

3. Annual permit fee: -----\$ 500.00

4. Total Fee: Add Totals from 1, 2, and 3 ----- \$ 1,025.00

NOTE: If Total Fee exceeds \$2,500.00 then pay only-----\$2,500.00

SECTION II. FEES: Sand and/or gravel operators mining less than five thousand (5,000) tons per year:

1. Annual permit fee: ----- \$ 300.00

III. BONDING – for all EXCEPT In-Stream mine sites:

A. For sand and gravel operators mining less than five thousand (5,000) tons/year:

Number of new acres _____ X \$500/acre ----- \$

B. For ALL other open pit operations:

Minimum per permit ----- **\$8,000.00**

Acreage over 8 acres 7.5 X \$500/acre-----\$ 3750.00

TOTAL BONDING REQUIRED-----\$ 3750.00

☐ Check here if adequate bonding is already posted.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

RECEIVED

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER S & G SAND AND GRAVEL (#1)		PERMIT NUMBER 0535	MAR 06 1992
COMPANY NAME S & G SAND AND GRAVEL INC.		MISSOURI LAND RECLAMATION COMMISSION	
COUNTY ST. LOUIS COUNTY	1/4 SECTION	SECTION St Louis County Survey 879 & 880	
TOWNSHIP 44 north	RANGE 4 & 5 E	ACRES re	8 56 re conversation 5/6/94
RIVER OR STREAM NAME (FOR IN-STREAM ACRES) N/A			
MINERAL COMMODITY SAND AND GRAVEL		ESTIMATED TONS/YEAR (FOR GRAVEL SITES) 150,000 ton	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) 1ST NATIONAL REALTY CO. INC.		
ADDRESS 311 S. HIGHWAY 141		
CITY PEERLESS PARK	STATE MO	ZIP CODE 63088
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____ <input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		DATE OF AGREEMENT JAN 1, 1991

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) (SAME AS ABOVE)		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____ <input type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		DATE OF AGREEMENT

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

RECEIVED

P.O. BOX 176
JEFFERSON CITY, MO 65101
MAR 06 1992

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE

2011 3/7/2016

MISSOURI LAND
RECLAMATION COMMISSION

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

THIS PLAN COVERS AN AREA OF APPROXIMATELY 56 ACRES. THE MINE SITE IS A FLAT OPEN FIELD LINED BY TREES ON THREE SIDES AND BORDERED BY A RAISED RAILWAY ON THE FOURTH SIDE. TOPSOIL AND SUBSOIL HAS BEEN OR IS BEING REMOVED BY PEERLESS LANDFILL INC., DNR PERMIT #218913, AHEAD OF MINING OPERATION.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

18 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

OVERBURDEN REMOVAL BY PEERLESS LANDFILL CO. INC. DNR PERMIT #218913 BY LANDOWNERS INSTRUCTIONS.

See letter dated 7/9/93

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

N/A see above

See letter dated 7/9/93

B. SPOIL

MAR 06 1992

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

AFTER PLANT PROCESSING SPOIL AND WATER RUNS TO A SETTLING POND
FOR RECOVERY BY LANDFILL PER LANDOWNERS INSTRUCTIONS.

MISSOURI LAND
RECLAMATION COMMISSION

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

MINING WILL BE DONE BY DREDGE OR DRAGELINE (CURRENTLY DREDGE) AT A RATE OF APPROX. 3.3 ACRE PER YEAR. ACRES TO BE MINED ARE NUMBER AS INDICATED ON MAP AS TO NEXT AREA TO BE MINED. IN THE EVENT THAT A PARCEL IS NOT COMPLETELY MINED IN THE GIVEN YEAR IT WILL BE FINISHED BEFORE MOVING TO NEXT PARCEL. PLANNED ORDER OF ADVANCEMENT IS INDICATED ON MAP AT ONE PARCEL A YEAR STARTING AT PARCEL #1. PARCEL #1 IS PARTIALLY MINED APPROX. 2 ACRES.

YES NO

☐ ☒ Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

☐ ☒ Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

☐ ☒ Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

MISSOURI LAND

A. REVEGETATION (Attach additional sheets, if needed)

RECLAMATION COMMISSION

REVEGETATION MIX #1

PURPOSE OR LAND USE

LAKE OR LANDFILL

B. SEEDING OR PLANTING TIME

SPRING AND FALL

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

IF MINING AREA IS TO BE LEFT AS A WATER IMPOUNDMENT AT LANDOWNERS INSTRUCTION(SEE SECTION "B")GRASS SEED WILL BE SOWN BY HAND AND COVERED WITH STRAW IF NEEDED TO INSURE GROWTH.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
TALL FESCUE	6		
CRH, 1 - 101	2		
6	5		
5 x 4			

REVEGETATION MIX #2

PURPOSE OR LAND USE
<p>1. <u>RECREATION</u></p> <p>2. <u>RESIDENTIAL</u></p> <p>3. <u>INDUSTRIAL</u></p> <p>4. <u>AGRICULTURE</u></p> <p>5. <u>WILDLIFE</u></p> <p>6. <u>WATER RESOURCES</u></p> <p>7. <u>TRANSPORTATION</u></p> <p>8. <u>OTHER</u></p>

B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

THE OWNER OF THE LAND OR IT'S AGENTS HAS RESERVED THE RIGHTS TO THE ENTIRE MINING AREA FOR REFILLING, PARCEL BY PARCEL, AS MINING IS COMPLETED, WITH CLEAN FILL IN PREPERATION FOR FUTURE USE AS INDUSTRIAL LAND. IN THE EVENT THAT CONDITIONS BECOME UNFAVORABLE FOR REFILLING, AREA WILL BE LEFT AS A WATER INPOUNDMENT(LAKE).BANKS WILL BE GRADED TO A SLOPE OF 2.5:1 AND COVERED WITH TOPSOIL FROM LOCATIONS WITHIN THE MINING AREA.

to 2.5:1 and stable slopes 7/2/93

RECEIVE

MAR 06 1992

MISSOURI LAND
RECLAMATION COMMISSION**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

GRADING OF BANKS WILL BE DONE AS MINING ADVANCES IF LANDOWNER DECIDES NOT TO REFILL AREA. FINAL GRADING WILL BE DONE WITHIN ONE YEAR AFTER PARCEL IS FINISHED MINED IF LANDOWNER DOES NOT REFILL.

REPLACEMENT OF TOPSOIL

TOPSOIL WILL BE PLACED ON BANKS WITHIN SIX MONTHS AFTER FINISH GRADING. DEPTH OF TOPSOIL AND SUBSOIL WILL BE 18 INCHES OR MORE TO INSURE PLANT GROWTH.

TOPSOIL AND SUBSOIL WILL BE REMOVED FROM AREAS WITHIN THE UNMINED PARCELS TO COVER BANKS.

REVEGETATION

BANKS WILL BE SEEDED IN GRASS THE NEXT SPRING FOLLOWING TOPSOIL PLACEMENT

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

*12"***D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

ESTIMATED ACRES:

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)



Water impoundments (for wildlife, agricultural, or development)

56

By my signature, I attest to the following:

MAR 06 1992

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT 		TITLE VICE-PRES.	DATE 3/6/92
NOTARY PUBLIC EMBOSSEER SEAL	STATE		COUNTY (OR CITY OF ST. LOUIS)
	SUBSCRIBED AND SWORN BEFORE ME, THIS		USE RUBBER STAMP IN CLEAR AREA BELOW
	DAY OF 19		
	NOTARY PUBLIC SIGNATURE	MY COMMISSION EXPIRES	
NOTARY PUBLIC NAME (TYPED OR PRINTED)			
APPROVED BY (DIRECTOR'S REPRESENTATIVE) 		DATE APPROVED 3-10-92	PERMIT NUMBER 535

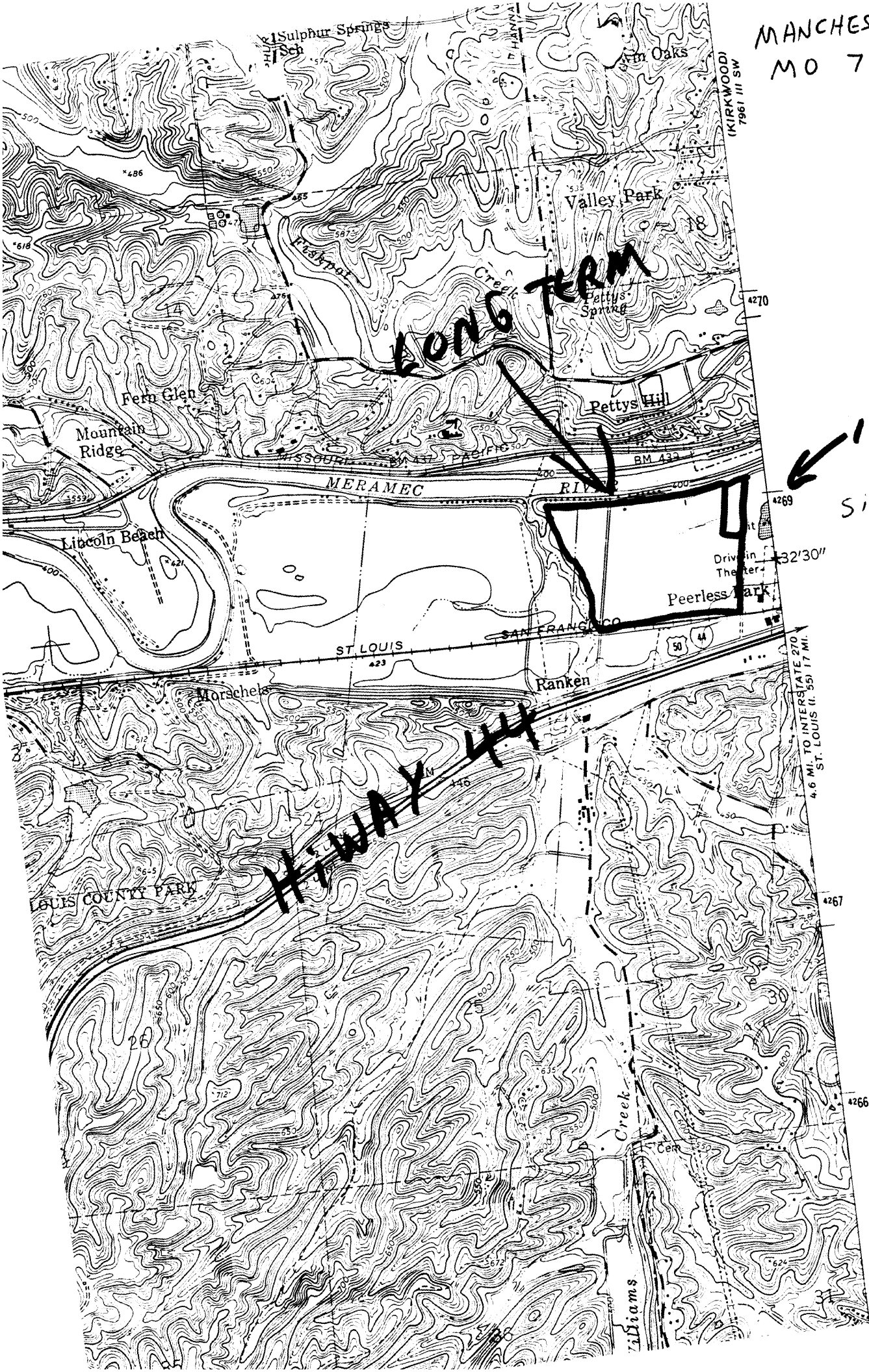
MANCHESTER
MO 7 1/2"

LONG TERM

INITIAL
Site #1

HIWAY 44

TLS
3-10-9



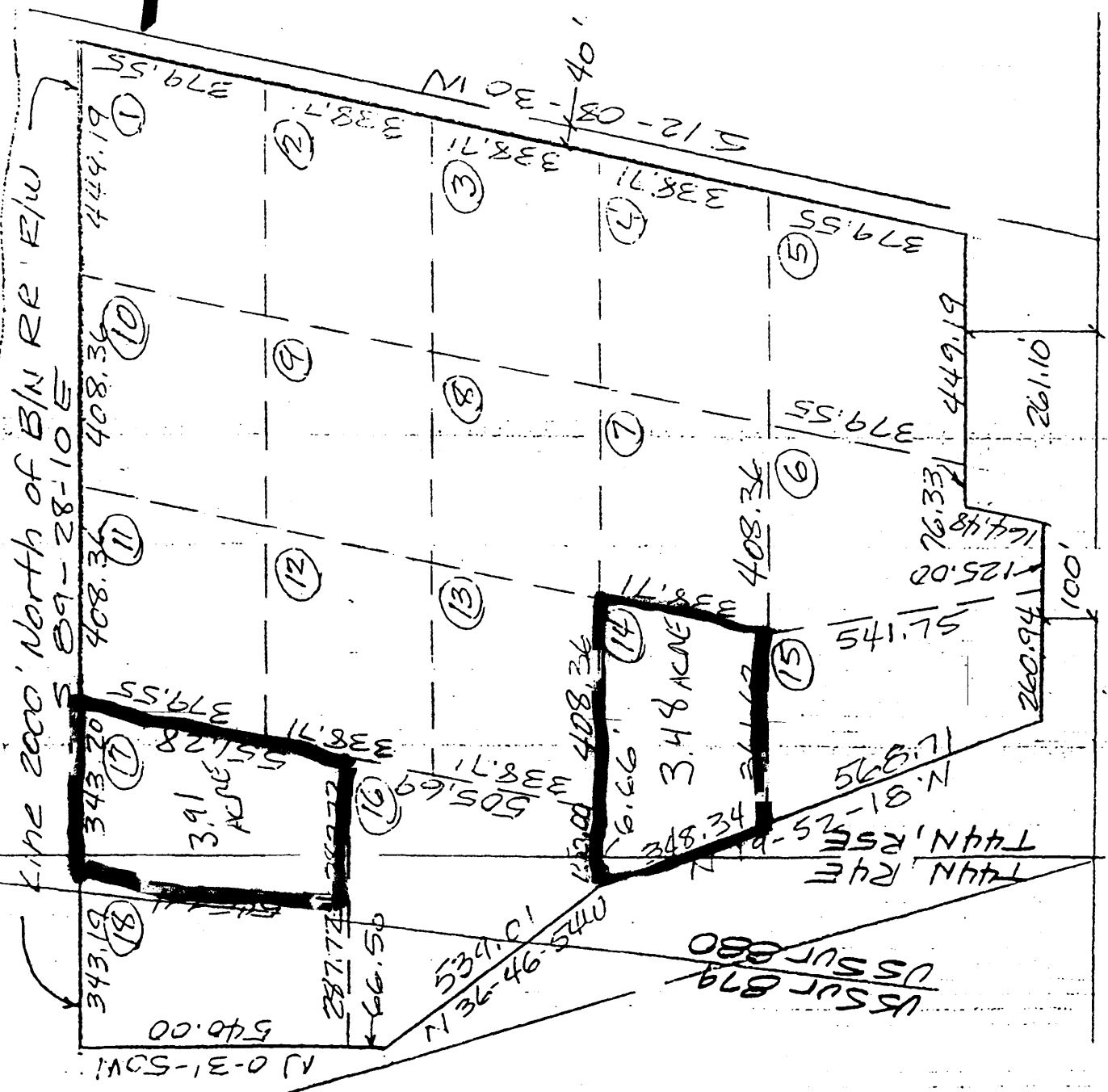
S&G SANDS AND GRAVEL INC
0535

02/5/20

New Acres Bond

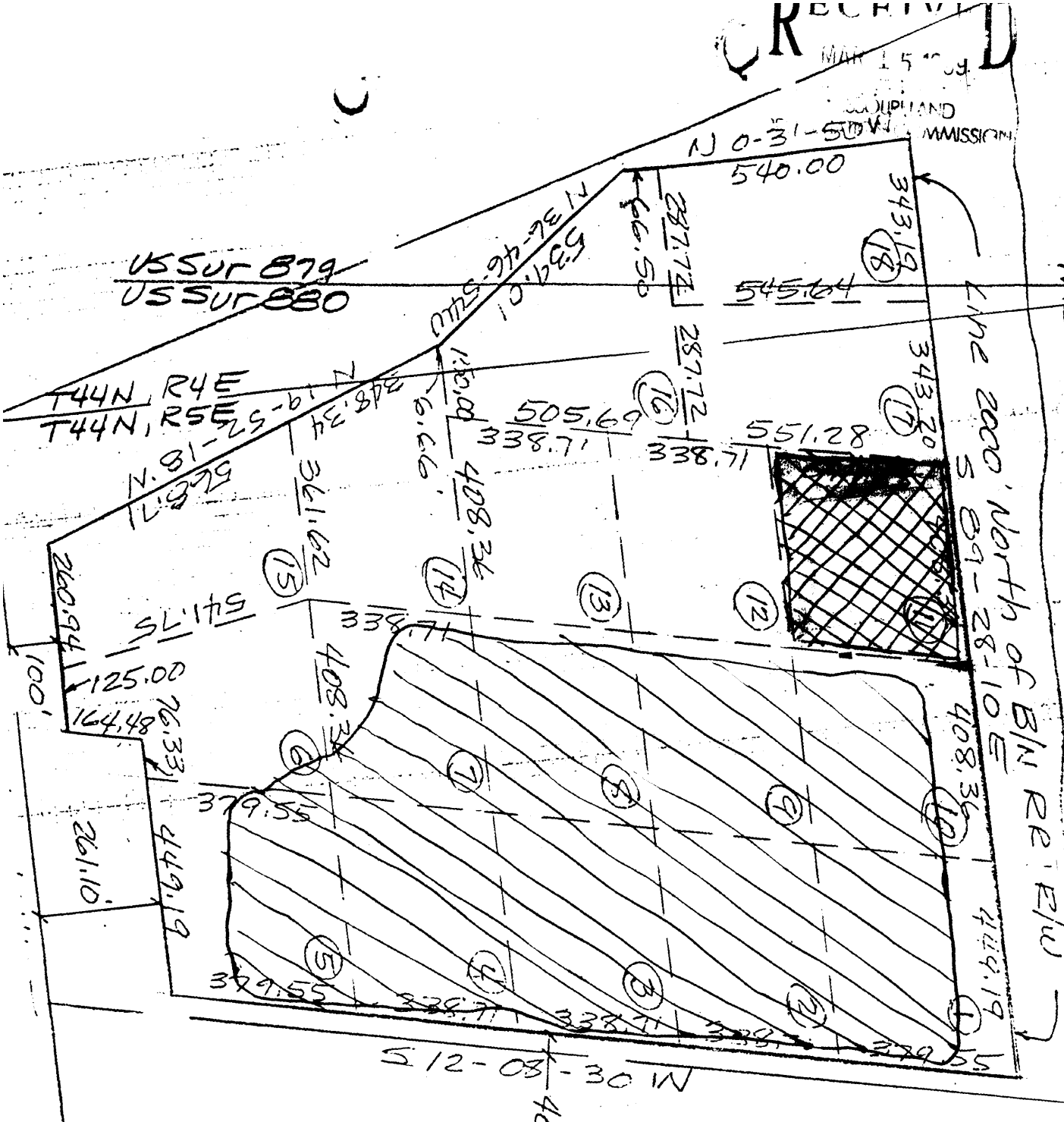
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FEB 27 2004

MISSOURI LAND
RECLAMATION COMMISSION

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MAR 15 2004

MEERAMEC RIVER



St G Sand and Gravel

Permit # 535

MARCH 3, 1999
June 18, 2002 - Revised

NEW ACRES Parcel # 22

MINED AREA

10 New acres - 2002

USS 879 + 886
T - 44N
R - 04, 05 E

USS 879
USS 880

T44N, R4E
T44N, R5E

N. 81-29-61 W
L. 879

S. 41-17 S

S 12-08-30 W

5 vacant buildings

- Sand and Gravel

ISS 879+880, T-99W, K-42

Post mining land use is

3 - New acres - 1999

10 new acres - 2002

The overall area shown total = 63,370 Acres, which are expected to be mined over an 18 year period at an average acreage per year of 3,520 acres per year. Based on that acreage per year, an average of 40% of the site, on average will be removed from the overall area and used as a filler material and used as part of land fill operations on and around the placer. This removal will be controlled by the 2 1/2 to 1 slope shown in all cases.

102 OPERATION PLAN APPLICANT: SSG and 3 Angels Inc 404 Longview Hwy Ballwin, MO 63021 (314) 391-8565	ENGINEER: Louis & Antoine JT 141 N. Meramec Ave. St Louis, MO 63106 (314) 727-8599
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Office Building